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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Choi et al.
App. No.: 10/806,956 GPAU: 2834
Filing Date: 03/23/2004 Examiner: T. M. Dougherty
Dkt. No.: PA128-04D09 Conf. No.: 2332
For: AN APPARATUS TO CONTROL DISPLACEMENT OF A BODY SPACED-
APART FROM A SURFACE

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

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P.O. Box 1450
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Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

- ☒ Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449
☐ Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

FEES DUE

This Information Disclosure Statement is being filed:

- ☐ within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is believed required.

- ☐ before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
- ☐ during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- ☒ during the period specified in § 1.97(c). No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of this information disclosure statement.
- ☒ Applicant(s) does not believe that any additional fees are due, but if the Commissioner believes additional fees are due, the Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 502650.

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Signed: Katrina Prati

Typed Name: Katrina Prati

Date: 10-29-04

Respectfully Submitted,



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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 8

Complete if Known

Application Number	10/806,956
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Group Art Unit	2834
Examiner Name	Dougherty, Thomas M.
Attorney Docket Number	PA128-04D09

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	4,070,116		Frosch et al.	01-24-1978	
	A2	4,600,309		Fay	07-15-1986	
	A3	4,848,911		Uchida et al.	07-18-1989	
	A4	5,074,667		Miyatake	12-24-1991	
	A5	5,148,036		Matsugu et al.	09-15-1992	
	A6	5,148,037		Suda et al.	09-15-1992	
	A7	5,151,754		Ishibashi et al.	09-29-1992	
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	A9	5,376,810		Hoenk et al.	12-27-1994	
	A10	5,424,549		Feldman	06-13-1995	
	A11	5,670,415		Rust	09-23-1997	
	A12	5,743,998		Park	04-28-1998	
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	A16	6,150,680		Eastman et al.	11-21-2000	
	A17	6,326,627	B1	Putvinski et al.	12-04-2001	
	A18	2002/0132482	A1	Chou	09-19-2002	
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	A20	6,482,742	B1	Chou	11-19-2002	
	A21	6,534,418	B1	Plat et al.	03-18-2003	
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	A24	2003/0080471	A1	Chou	05-01-2003	
	A25	2004/0036201	A1	Chou et al.	02-26-2004	
	A26	5,468,542		Crouch	11-21-1995	
	A27	5,366,851		Novembre	11-22-1994	
	A28	5,362,606		Hartney et al.	11-08-1994	
	A29	5,324,683		Fitch et al.	06-28-1994	
	A30	5,212,147		Sheats	05-18-1993	
	A31	5,458,520		DeMercurio et al.	10-17-1995	
	A32	5,453,157		Jeng	09-26-1995	
	A33	5,439,766		Day et al.	08-08-1995	
	A34	5,431,777		Austin et al.	07-11-1995	
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				Examiner Name	Dougherty, Thomas M.
Sheet	2	of	8	Attorney Docket Number	PA128-04D09

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		Number	Kind Code ² (if known)			
	A35	5,422,295		Choi et al.	06-06-1995	
	A36	5,421,981		Leader et al.	06-06-1995	
	A37	5,417,802		Obeng	05-23-1995	
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	A40	5,330,881		Sidman et al.	07-19-1994	
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	A45	5,240,878		Fitzsimmons et al.	08-31-1993	
	A46	5,108,875		Thackeray et al.	04-28-1992	
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	A68	4,980,316		Huebner	12-25-1990	
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				Filing Date	March 23, 2004
				First Named Inventor	Choi et al.
				Group Art Unit	2834
				Examiner Name	Dougherty, Thomas M.
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		Number	Kind Code ² (if known)			
	A69	4,999,280		Hiraoka	03-12-1991	
	A70	5,071,694		Uekita et al.	12-10-1991	
	A71	5,169,494		Hashimoto et al.	12-08-1992	
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	A78	5,700,626		Lee et al.	12-23-1997	
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	A90	6,383,928	B1	Eissa	05-07-2002	
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	A101	6,632,742	B2	Yang et al.	10-14-2003	
	A102	6,635,581	B2	Wong	10-21-2003	
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Sheet

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of

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Application Number

10/806,956

Filing Date

March 23, 2004

First Named Inventor

Choi et al.

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2834

Examiner Name

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Sheet	6	of	8	Attorney Docket Number	PA128-04D09

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A122	Abstract of Japanese Patent 63-138730	
	A123	Abstract of Japanese Patent 55-88332	
	A124	Abstract of Japanese Patent 57-7931	
	A125	Abstract of Japanese Patent 02-92603.	
	A126	Translation of Japanese Patent 02-92603.	
	A127	Abstract of Japanese Patent 02-24848.	
	A128	Translation of Japanese Patent 02-24848.	
	A129	HEIDARI et al., "Nanoimprint Lithography at the 6 in. Wafer Scale," Journal of Vacuum Science Technology, Nov/Dec 2000, pp. 3557-3560, vol. B, no. 18(6)/	
	A130	NERAC.COM Retro Search, "Reduction of Dimension of Contact Holes", August 31, 2004	
	A131	NERAC.COM Retro Search, "Trim Etching of Features Formed on an Organic Layer", September 2, 2004	
	A132	NERAC.COM Retro Search, "Multi-Layer Resists", September 2, 2004	

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	A133	HU et al., "Flourescence Probe Techniques (FPT) for Measuring the Relative Efficiencies of Free-Radical Photoinitiators", s0024-9297(97)01390-9; "Macromolecules" 1998, vol. 31, no.13, pp. 4107-4113, 1998 American Chemical Society. Published on Web 05/29/1998	
	A134	FEYNMAN, Richard P., "There's Plenty of Room at the Bottom—An Invitation to Enter a New Field of Physics," 12 pp [online]Retreived 9/23/04 from URL:http://www.zyvex.com/nanotech/feynman.html.	
	A135	CIBA SPECIALTY CHEMICALS BUSINESS LINE COATINGS, "What is UV Curing?", 45 pp [online]Retreived 9/24/04 from URL:http://www.cibasc.com/image.asp?id=4040.	
	A136	Communication Relating to the Results of the Partial International Search; International Appl. No. PCT/US2002/015551.	
	A137	Papirer et al., "The Grafting of Perfluorinated Silanes onto the Surface of Silica: Characterization by Inverse Gas Chromatography," August 1993, pp238-242, vol. 159, Issue 1.	
	A138	Abstract of Papirer et al., "The Grafting of Perfluorinated Silanes onto the Surface of Silica: Characterization by Inverse Gas Chromatography," August 1993, pp238-242, vol. 159, Issue 1.	
	A139	Hirai et al., "Mold Surface Treatment for Imprint Lithography," August 2001, pp 457-462, vol 14, No. 3.	
	A140	Abstract of Hirai et al., "Mold Surface Treatment for Imprint Lithography," August 2001, pp 457-462, vol 14, No. 3.	
	A141	Sung et al., "Micro/nano-tribological Characteristics of Self-Assembled Monolayer and its Application in Nano-Structure Fabrication," July 2003, pp. 808-818, vol. 255, no. 7.	
	A142	Abstract of Sung et al., "Micro/nano-tribological Characteristics of Self-Assembled Monolayer and its Application in Nano-Structure Fabrication," July 2003, pp. 808-818, vol. 255, no. 7.	
	A143	Roos et al., "Nanoimprint Lithography with a Commerical 4 Inch Bond System for Hot Embossing," October 2001, pp. 427-435, vol. 4343.	

Examiner Signature		Date Considered	
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